



1 FW

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/730,658
Filing Date	December 8, 2003
First Named Inventor	James Thomas Doyle
Group Art Unit	2838
Examiner Name	Unknown

11

Attorney Docket Number

100-24000 (P05764)

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Response <input type="checkbox"/> After Final (Response) <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement Form PTO-1449 (3 pgs.) and 28 references <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers <i>(for an Application)</i> <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Inquiry <input checked="" type="checkbox"/> Other Enclosure(s) <i>(please identify below):</i> Return Receipt Postcard Certificate of Mailing
	Remarks	Please charge any necessary fees or credit overpayment to Deposit Account No. 502305. A duplicate copy of this transmittal is attached for this purpose.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Mark C. Pickering, Reg. No. 36,239
Signature	
Date	June 16, 2004

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: M/S Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this date: June 16, 2004

Typed or printed name	Robin L. King	Date	June 16, 2004
Signature			

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission	11	Attorney Docket Number	100-24000 (P05764)
--	----	------------------------	--------------------

ENCLOSURES (check all that apply)

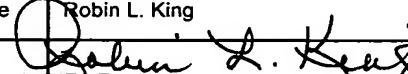
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group			
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences			
<input type="checkbox"/> Amendment/Response	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)			
<input type="checkbox"/> After Final (Response)	<input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition	<input type="checkbox"/> Proprietary Information			
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Inquiry			
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):			
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	Return Receipt Postcard Certificate of Mailing			
<input checked="" type="checkbox"/> Information Disclosure Statement Form PTO-1449 (3 pgs.) and 28 references	<input type="checkbox"/> Request for Refund				
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____				
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application					
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53					
<table border="1"> <tr> <td>Remarks</td> <td colspan="2">Please charge any necessary fees or credit overpayment to Deposit Account No. 502305. <u>A duplicate copy of this transmittal is attached for this purpose.</u></td> </tr> </table>			Remarks	Please charge any necessary fees or credit overpayment to Deposit Account No. 502305. <u>A duplicate copy of this transmittal is attached for this purpose.</u>	
Remarks	Please charge any necessary fees or credit overpayment to Deposit Account No. 502305. <u>A duplicate copy of this transmittal is attached for this purpose.</u>				

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Mark C. Pickering, Reg. No. 36,239
Signature	
Date	June 16, 2004

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: M/S Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this date: June 16, 2004	
---	--

Typed or printed name	Robin L. King
Signature	
Date	June 16, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

The Patent Application of) Group Art Unit: 2838
 James Thomas Doyle)) Examiner: Unknown
 Application No. 10/730,658)) INFORMATION DISCLOSURE
 Filed: December 8, 2003)) STATEMENT
 For: POWER SUPPLY SYSTEM AND METHOD))
 THAT PROVIDES A LOW-COST))
 APPROACH TO VOLTAGE SCALING))
))
))

Mail Stop Amendment
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

Sir:

Applicant submits herewith information of which applicant is aware, which applicant believes may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

This Information Disclosure Statement:

(a) [] accompanies the new patent application submitted herewith. 37 CFR § 1.97(a).

(b) [] is filed within three months after the filing date of the application or within three months after the date of entry of the national stage of a PCT application as set forth in 37 CFR § 1.491.

(c) [X] as far as is known to the undersigned, is filed before the mailing date of a first Office Action on the merits.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service, postage prepaid, in an envelope, addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on 06-16-04.

Dated: June 16, 2004 By: Susan M. Keng

(d) [] is filed after the first office action and more than three months after the application's filing date or PCT national stage date of entry filing but, as far as is known to the undersigned, prior to the mailing date of either a final rejection or a notice of allowance, whichever occurs first, and is accompanied by either the fee (\$180) set forth in 37 CFR § 1.17(p) or a certification as specified in 37 CFR § 1.97(e), as checked below.

(e) [] is filed after the mailing date of either a final rejection or a notice of allowance, whichever occurred first, and is accompanied by the fee (\$180) set forth in 37 CFR § 1.17(i)(1) and a certification as specified in 37 CFR § 1.97(e), as checked below. This document is to be considered as a petition requesting consideration of the information disclosure statement.

[If either of boxes (d) or (e) are checked above, the following "certification" under 37 CFR § 1.97(e) may need to be completed.] The undersigned certifies that:

(f) [] Each item of information contained in the information disclosure statement was cited in a communication mailed from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.

(g) [] No item of information contained in this information disclosure statement was cited in a communication mailed from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned after making reasonable inquiry, was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing of this information disclosure statement.

A list of the patent(s) or publications(s) is set forth on the attached Form PTO-1449 (Modified). A copy of the items on PTO-1449 (Modified) is supplied herewith:

- (h) [X] each
- (i) [] none
- (j) [] only those listed below:

Those patent(s) or publication(s) which are marked with an asterisk (*) in the attached form PTO-1449 (Modified) are not supplied because they:

- [] were previously cited by or submitted to the Office in a prior application no. _____ filed _____ and relied upon in this application for an earlier filing date under 35 U.S.C. § 120 or
- [] are hereby waived pursuant to 37 CFR 1.98 (a)(2)(i) for all U.S. national patent applications filed after June 30, 2003.

A concise explanation of relevance of the described above and attached information is:

- (k) [X] not given
- (l) [] given for each listed item

(m) [] given for only non-English language listed item(s) [Required]

(n) [] is in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references [copy attached].

While the information disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that the information referred to is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR § 1.56(a) exists. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR § 1.98 and MPEP § 609 and the Examiner is respectfully requested to consider the above-described and attached information.

The Commissioner is hereby authorized to charge our Deposit Account No. 502305 for any fees required in connection with the filing of the Information Disclosure Statement.

A duplicate copy of this Notice is enclosed for this purpose. In particular, in the event that an Office Action has cross in the mail with this Information Disclosure Statement, the Commissioner is authorized to charge the above-named deposit account for any fees required pursuant to 37 C.F.R. §1.17(p) or 1.17 (i) (1).

Respectfully submitted,

Dated: 10-16-04

By: 
Mark C. Pickering
Reg. No. 36,239

Attorney for Assignee

Atty. Docket No: 100-24000 (P05764)

P.O. Box 300
Petaluma, CA 94953-0300
Direct Telephone: (707) 762-5583
Main Telephone: (707) 762-5500
Facsimile: (707) 762-5504
Customer No. 33402

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Docket Number (Optional) 100-24000 (P05764)	Application Number 10/730,658
Applicant(s) James Thomas Doyle	
Filing Date December 8, 2003	Group Art Unit 2838

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,602,882	02/11/97	Co et al.	375	372	01/19/96
		6,351,165 B1	02/26/02	Gregorian et al.	327	156	08/21/00
		6,262,611 B1	07/17/01	Takeuchi	327	159	06/23/00
		6,720,808 B1	04/13/04	Chan	327	143	11/12/02

U.S. PATENT APPLICATION PUBLICATIONS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

John G. Maneatis, "Low-Jitter Process-Independent DLL and PLL Based on Self-Biased Techniques", 1996 ISCC8.1 Presentation Slides, 3 sheets, IEEE Journal of Solid-State Circuits, Vol. 31, No. 11, November 1996, pp. 1723-1732.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

JUN 18 2004

Docket Number (Optional)
100-24000 (P05764)Application No.
10/730,658

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**
(Use several sheets if necessary)

Applicant(s)
James Thomas DoyleFiling Date
December 8, 2003Group Art Unit
2838**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	Dragan Maksimovic, Bruno Kranzen, Sandeep Dhar and Ravindra Ambatipudi, U.S. Patent Application No. 10/053,226, filed January 19, 2002, entitled "An Adaptive Voltage Scaling Digital Processing Component and Method of Operating the Same".
	Bruno Kranzen and Dragan Maksimovic, U.S. Patent Application No. 10/053,227, filed January 19, 2002, entitled "Adaptive Voltage Scaling Clock Generator for Use in a Digital Processing Component and Method of Operating the Same".
	Dragan Maksimovic and Sandeep Dhar, U.S. Patent Application No. 10/053,828, filed January 19, 2002, entitled "System for Adjusting a Power Supply Level of a Digital Processing Component and Method of Operating the Same".
	Dragan Maksimovic, Ravindra Ambatipudi, Sandeep Dhar and Bruno Krazen, U.S. Patent Application No. 10/053,228, filed January 19, 2002, entitled "An Adaptive Voltage Scaling Power Supply for Use in a Digital Processing Component and Method of Operating the Same".
	James T. Doyle and Dragan Maksimovic, U.S. Patent Application No. 10/160,428, filed March 26, 2002, entitled "Method and System for Minimizing Power Consumption in Mobile Devices Using Cooperative Adaptive Voltage and Threshold Scaling".
	Dragan Maksimovic and James Thomas Doyle, U.S. Patent Application No. 10/166,822, filed June 10, 2002, entitled "Serial Digital Communication Superimposed on a Digital Signal Over a Single Wire".
	Dragan Maksimovic and Sandeep Dhar, U.S. Patent Application No. 10/236,482, filed September 6, 2002, entitled "Method and System for Providing Self-Calibration for Adaptively Adjusting a Power Supply Voltage in a Digital Processing System".
	Dragan Maksimovic and Sandeep Dhar, U.S. Patent Application No. 10/272,027, filed October 15, 2002, entitled "All Digital Power Supply System and Method That Provides a Substantially Constant Supply Voltage Over Changes in PVT Without a Band Gap Reference Voltage".
	Wai Cheong Chan and Donald Kevin Cameron, U.S. Patent Application No. 10/324,997, filed December 18, 2002, entitled "System and Method for Signal Delay in an Adaptive Voltage Scaling Slack Detector".
	Mark F. Rives, U.S. Patent Application No. 10/246,971, filed September 19, 2002, entitled "Power Supply System and Method that Utilizes an Open Loop Power Supply Control".
	Jim Doyle and Bill Broach, Small Gains in Power Efficiency Now, Bigger Gains Tomorrow [online]. July 9, 2002 [retrieved on 2003-02-01]. Retrieved from the Internet: <URL: http://www.commsdesign.com/design_corner/OEG20020709S0022 >. pps. 1-5.
	Robert W. Erickson and Dragan Maksimovic, <u>Fundamentals of Power Electronics</u> , Second Edition, Kluwer Academic Publishers, 2001, pp. 333.
	Krisztian Flautner, Steven Reinhardt and Trevor Mudge, Automatic Performance Setting for Dynamic Voltage Scaling, Wireless Networks, Volume 8, Issue 5, September 2002, pps. 507-520, and Citation, pps. 1-3, [online]. [retrieved on 2003-02-02]. Retrieved from the Internet: <URL: http://portal.acm.org/citation.cfm?id=582455.582463&coll=portal&dl=ACM&idx=J804&p.... >.
	Krisztian Flautner, Steven Reinhardt and Trevor Mudge, Automatic Performance Setting for Dynamic Voltage Scaling [online]. May 30, 2001, [retrieved on 2003-02-02]. Retrieved from the Internet: <URL: http://www.eecs.umich.edu/~tnm/papers/mobicom01.pdf >. pps. 1-12.
	Texas Instruments, "Synchronous-Buck PWM Controller With NMOS LDO Controller", TPS5110, SLVS025A- April 2002, Revised June 2002.
	Intel XScale Core, Developer's Manual, December 2000, [online], [retrieved on 2003-02-02]. Retrieved from the Internet: <URL: http://developer.intel.com/design/intelxscale/27347301.pdf >. pps. 1-1 through B-1.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Docket Number (Optional) 100-24000 (P05764)	Application Number 10/730,658
Applicant(s) James Thomas Doyle	
Filing Date December 8, 2003	Group Art Unit 2838

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,498,512 B2	12/24/02	Simon et al.	326	93	02/27/01
		6,317,008 B1	11/13/01	Gabara	331	117 R	01/26/99
		10/351,061		Chan et al.			01/24/03
		10/351,056		Chan et al.			01/24/03
		10/402,091		Doyle			03/28/03

U.S. PATENT APPLICATION PUBLICATIONS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Kaushik Roy, Leakage Tolerant Circuits, Sub-Threshold Logic [online]. No date, [retrieved by inventor approximately 2002-11-01]. Retrieved from the Internet:<URL:<http://www.ece.purdue.edu/~visi/seven.pdf>>. pps. 1-43.

Benjamin James Patella, "Implementation of a High Frequency, Low-Power Digital Pulse Width Modulation Controller Chip", Thesis Submitted To Graduate School of University of Colorado in Department of Electrical and Computer Engineering, 2000, pps. 1-272.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.